

Application No 10/628,207

Application dated July 29, 2003

Reply to office action of December 04, 2007

REMARKS/ARGUMENTS

Interview summary claims

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In the references you sent to me the first claim is large claim. I do not have a patent attorney and attorneys here do not deal with US applications. I tried to call you and could not succeed. It appears that you want one claim so I have clubbed all claims into one large claim. I have made first claim (claim 20, new) a large claim. Since I am based at long distance I authorize you to change the claims language if you so desire.

Prior art discussion

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EuteneuerUS6077273

He describes a coil which is **part of balloon** in its inner surface and is designed to increase the surface area for mounting the stent on the balloon. Here the structure is to give out pouchings on balloon surface to increase stent mounting area (fig 10 and 12, part no 30 and 60) (column 6 lines 40-60) or part of inner balloon where two balloons used. Instantly claimed application (10/628,207):

Here spring is **part of the shaft** of balloon catheter (where shaft is missing and is replaced by spring). It is getting longitudinally compressed to absorb push force and transmit it forward for the movement of the balloon. This spring is structurally and functionally different from coil of EuteneuerUS6077273.

EuteneuerUS6077273

He describes a different coil which is **part of balloon** and is designed to increase the surface area for stent mounting and also hold stent in its place to prevent embolisation as the diameter of coil is more in part proximal and distal to stent (fig 15 and 16, part no 108) (column 7, lines 15-55).

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Instantly claimed application (10/628,207):

Heat expansile material on balloon surface to hold stent in its place and spring function is described above which is in shaft of balloon catheter for forward force.

Below are few points I wrote to you earlier.

EuteneuerUS6077273

He has described a stent balloon catheter where the balloon segment of catheter has multiple different structures to hold the stent securely on the balloon

Such as it has a balloon (Fig 1-14) which is depressed in centre, cylindrical mounting body (fig 4-30), spiral mounting body (fig 5-30), two piece mounting body (fig 7 and 8-30a and 30b), inner balloon with valve (fig 11,17 & 18-50,54), sheath (fig 14-80), two inner balloons (fig 19-50a & 50b) (fig 20 & 21- 54a 54b)

Instantly claimed application (10/628,207):

No such structures to hold the stent securely on balloon. Instead a heatexpansile material on outer surface is used to hold the stent securely on balloon.

Euteneuer (US6077273)

He describes a coil (fig 10), coil with sheath (fig 12- 60 & 62), Column 6 lines 1-5 and 43-55. These coils are used to increase mounting area for stent on balloon to secure it.

He further describes coil (fig 15 & 16-106,108) (column 7 lines 14-35) compression of these will enlarge diameter of body to secure stent on balloon.

The coil is used to increase mounting area for stent to secure it on balloon. The coil here is structurally designed to increase mounting area and has no role in transmitting forward balloon force.

Instantly claimed application (10/628,207):

Here the spring is used for forward force; In the balloon catheter, proximal to balloon the shaft will be missing in a significant length and this part will have a spring (Figure 1A), it will slowly get compressed in length with the force and transmit it forward. This segment will also have spirally running wires (Figure 1B) to act like a spring and absorb the force to transmit it forward.

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Note that here spring is structurally designed to be used to absorb force and transmit it forward to the balloon without disturbing the alignment of the balloon catheter.

Thus the structure and purpose of spring in Instantly claimed application (10/628,207), is different from coil of Euteneuer (US6077273).

Exhibit shown

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I can show a device which is not a true prototype but it shows that the idea will work. If you deem it necessary I can show it to you when I visit Washington next in some meeting.

Allowable subject matter

I have changed the claims to my knowledge. I am based at long distance and thus allow you to make required changes in claim or other part language.

Conclusion

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Respectfully submitted

Vipul Narain Roy
(Dr. Vipul Narain Roy)

Dated December 30, 2007

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